

# NICHOLAS FREEMAN MEHRLE

| nmehrle@gmail.com | nicholasmehrle.com

## EDUCATION

---

### Johns Hopkins University

M.A. in Physics

B.S. in Physics, B.S. in Math, B.S. in Applied Math and Statistics

– GPA: 3.90/4.0

**Baltimore, MD**

Expected May 2016

Expected May 2016

## EMPLOYMENT

---

### Johns Hopkins University

Teaching Assistant - Department of Mathematics

– Differential Equations

**Baltimore, MD**

September 2015 - Present

### Optiver US LLC

Trading Intern

– Simulated high frequency trading of financial options

**Chicago, IL**

June - August 2015

### Johns Hopkins University Applied Physics Lab

Technical Intern - Applied Concepts and Technology Group

– Algorithm development, modeling and simulation

**Laurel, MD**

May - August 2014

### Johns Hopkins University

Tutor - Learning Den

– Newtonian mechanics and electricity and magnetism

**Baltimore, MD**

September 2013 - May 2014

## RESEARCH

---

### Johns Hopkins University

Research Assistant - Department of Physics and Astronomy

– Development of variable-delay polarization modulator

**Baltimore, MD**

May 2013 - Present

### CERN

Research Assistant - CMS Experiment

– Statistical analysis to discriminate production methods of Higgs boson

**Geneva, Switzerland**

Jan - May 2015

## PUBLICATIONS

---

– *CLASS: The Cosmology Large Angular Scale Surveyor*. With Thomas Essinger-Hileman et al. arXiv reference: 1408.4788.

– *The Cosmology Large Angular Scale Surveyor (CLASS): 38 GHz detector array of bolometric polarimeters*. With John W. Appel et al. arXiv reference: 1408.4789.

## MISCELLANEOUS

---

**Testing:** Physics GRE - 960/990 (91st percentile)

**Programming:** Python, Java, C, C++, Matlab, Mathematica, JavaScript, HTML  
CSS, L<sup>A</sup>T<sub>E</sub>X, ROOT, VBA

**Activities:** Mock Trial, Wading Team, Society of Physics Students,  
Hopkins Hackathon